

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121819\  
 Data File : VX014108.D  
 Acq On : 18 Dec 2019 19:40  
 Operator : JC/SP  
 Sample : K6300-03MSD  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SSI-MW-4MSD

Manual Integrations  
 APPROVED

apatel  
 12/19/2019 11:51:08 AM

Quant Time: Dec 19 03:52:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 494352   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 773668   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 700199   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 343581   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 6.05   | 65  | 285391   | 50.94 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.88% |      |
| 35) Dibromofluoromethane    | 5.49   | 113 | 239289   | 50.88 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.76% |      |
| 50) Toluene-d8              | 8.71   | 98  | 918487   | 50.16 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.32% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 323294   | 48.30 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 96.60%  |      |

| Target Compounds              |      |     |         |         |      | Qvalue |
|-------------------------------|------|-----|---------|---------|------|--------|
| 2) Dichlorodifluoromethane    | 1.19 | 85  | 212865  | 48.131  | ug/l | 100    |
| 3) Chloromethane              | 1.32 | 50  | 310872  | 52.377  | ug/l | 100    |
| 4) Vinyl Chloride             | 1.40 | 62  | 314822  | 50.269  | ug/l | 100    |
| 5) Bromomethane               | 1.63 | 94  | 217372  | 48.903  | ug/l | 99     |
| 6) Chloroethane               | 1.71 | 64  | 201710  | 52.185  | ug/l | 95     |
| 7) Trichlorofluoromethane     | 1.92 | 101 | 395409  | 51.003  | ug/l | 97     |
| 8) Diethyl Ether              | 2.18 | 74  | 186496  | 51.257  | ug/l | 99     |
| 9) 1,1,2-Trichlorotrifluoroet | 2.37 | 101 | 230447  | 49.311  | ug/l | 99     |
| 10) Methyl Iodide             | 2.50 | 142 | 335068  | 54.139  | ug/l | 98     |
| 11) Tert butyl alcohol        | 3.03 | 59  | 370192  | 305.783 | ug/l | 99     |
| 12) 1,1-Dichloroethene        | 2.36 | 96  | 242964  | 51.093  | ug/l | 98     |
| 13) Acrolein                  | 2.28 | 56  | 233077  | 336.327 | ug/l | 97     |
| 14) Allyl chloride            | 2.72 | 41  | 459422  | 54.110  | ug/l | 98     |
| 15) Acrylonitrile             | 3.13 | 53  | 830889  | 294.046 | ug/l | 99     |
| 16) Acetone                   | 2.43 | 43  | 707650  | 194.548 | ug/l | 99     |
| 17) Carbon Disulfide          | 2.56 | 76  | 650954  | 49.319  | ug/l | 100    |
| 18) Methyl Acetate            | 2.76 | 43  | 404554  | 56.128  | ug/l | 99     |
| 19) Methyl tert-butyl Ether   | 3.19 | 73  | 832044  | 53.247  | ug/l | 98     |
| 20) Methylene Chloride        | 2.84 | 84  | 283494  | 49.493  | ug/l | 99     |
| 21) trans-1,2-Dichloroethene  | 3.16 | 96  | 266987  | 50.962  | ug/l | 99     |
| 22) Diisopropyl ether         | 3.84 | 45  | 923763  | 54.598  | ug/l | 96     |
| 23) Vinyl Acetate             | 3.80 | 43  | 3921454 | 284.013 | ug/l | 100    |
| 24) 1,1-Dichloroethane        | 3.69 | 63  | 490789  | 52.138  | ug/l | 100    |
| 25) 2-Butanone                | 4.66 | 43  | 1177923 | 262.665 | ug/l | 100    |
| 26) 2,2-Dichloropropane       | 4.58 | 77  | 346053  | 47.348  | ug/l | 99     |
| 27) cis-1,2-Dichloroethene    | 4.59 | 96  | 307590  | 51.914  | ug/l | 99     |
| 28) Bromochloromethane        | 5.00 | 49  | 198731  | 54.850  | ug/l | 99     |
| 29) Tetrahydrofuran           | 5.11 | 42  | 763240  | 304.286 | ug/l | 99     |
| 30) Chloroform                | 5.20 | 83  | 470429  | 52.717  | ug/l | 100    |
| 31) Cyclohexane               | 5.57 | 56  | 435738  | 52.046  | ug/l | 98     |
| 32) 1,1,1-Trichloroethane     | 5.48 | 97  | 405659  | 53.338  | ug/l | 99     |
| 36) 1,1-Dichloropropene       | 5.79 | 75  | 354526  | 49.941  | ug/l | 99     |
| 37) Ethyl Acetate             | 4.82 | 43  | 440054  | 56.136  | ug/l | 99     |
| 38) Carbon Tetrachloride      | 5.78 | 117 | 335947  | 51.948  | ug/l | 99     |

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Instrument :  
 MSVOA\_X  
 ClientSampleID :  
 SSI-MW-4MSD

Manual Integrations  
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apatel  
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Quant Time: Dec 19 03:52:39 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc     | Units | Dev(Min) |
|--------------------------------|-------|------|----------|----------|-------|----------|
| 39) Methylcyclohexane          | 7.46  | 83   | 420123   | 47.930   | ug/l  | 99       |
| 40) Benzene                    | 6.14  | 78   | 1117913  | 51.181   | ug/l  | 99       |
| 41) Methacrylonitrile          | 5.03  | 41   | 246367   | 56.642   | ug/l  | 98       |
| 42) 1,2-Dichloroethane         | 6.19  | 62   | 384131   | 51.881   | ug/l  | 99       |
| 43) Isopropyl Acetate          | 6.44  | 43   | 704146   | 54.276   | ug/l  | 99       |
| 44) Trichloroethene            | 7.21  | 130  | 295783   | 49.027   | ug/l  | 98       |
| 45) 1,2-Dichloropropane        | 7.51  | 63   | 291822   | 52.126   | ug/l  | 94       |
| 46) Dibromomethane             | 7.65  | 93   | 185790   | 50.195   | ug/l  | 99       |
| 47) Bromodichloromethane       | 7.89  | 83   | 370541   | 53.155   | ug/l  | 96       |
| 48) Methyl methacrylate        | 7.76  | 41   | 351771   | 55.374   | ug/l  | 99       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 157724   | 1220.028 | ug/l  | 99       |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 2310548  | 283.590  | ug/l  | 99       |
| 52) Toluene                    | 8.78  | 92   | 696674   | 50.462   | ug/l  | 100      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 401019   | 52.464   | ug/l  | 100      |
| 54) cis-1,3-Dichloropropene    | 8.43  | 75   | 449228   | 52.753   | ug/l  | 99       |
| 55) 1,1,2-Trichloroethane      | 9.21  | 97   | 286547   | 51.786   | ug/l  | 99       |
| 56) Ethyl methacrylate         | 9.17  | 69   | 470837   | 54.170   | ug/l  | 100      |
| 57) 1,3-Dichloropropane        | 9.37  | 76   | 490667   | 52.705   | ug/l  | 100      |
| 59) 2-Hexanone                 | 9.48  | 43   | 1797230  | 274.020  | ug/l  | 99       |
| 60) Dibromochloromethane       | 9.57  | 129  | 298079   | 54.195   | ug/l  | 99       |
| 61) 1,2-Dibromoethane          | 9.67  | 107  | 301639   | 53.280   | ug/l  | 99       |
| 64) Tetrachloroethene          | 9.33  | 164  | 271466   | 43.814   | ug/l  | 97       |
| 65) Chlorobenzene              | 10.14 | 112  | 745102   | 50.047   | ug/l  | 97       |
| 66) 1,1,1,2-Tetrachloroethane  | 10.21 | 131  | 280158   | 52.702   | ug/l  | 98       |
| 67) Ethyl Benzene              | 10.25 | 91   | 1299373  | 50.765   | ug/l  | 100      |
| 68) m/p-Xylenes                | 10.36 | 106  | 996640   | 101.238  | ug/l  | 100      |
| 69) o-Xylene                   | 10.70 | 106  | 487349   | 50.476   | ug/l  | 98       |
| 70) Styrene                    | 10.71 | 104  | 832536   | 50.993   | ug/l  | 99       |
| 71) Bromoform                  | 10.86 | 173  | 230639   | 53.975   | ug/l  | 99       |
| 73) Isopropylbenzene           | 11.01 | 105  | 1271791  | 52.574   | ug/l  | 100      |
| 74) N-amyl acetate             | 10.89 | 43   | 607511   | 53.576   | ug/l  | 100      |
| 75) 1,1,2,2-Tetrachloroethane  | 11.26 | 83   | 459253   | 54.760   | ug/l  | 100      |
| 76) 1,2,3-Trichloropropane     | 11.29 | 75   | 430809m  | 57.756   | ug/l  |          |
| 77) Bromobenzene               | 11.25 | 156  | 332669   | 49.982   | ug/l  | 99       |
| 78) n-propylbenzene            | 11.35 | 91   | 1423042  | 52.445   | ug/l  | 100      |
| 79) 2-Chlorotoluene            | 11.42 | 91   | 845505   | 51.261   | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene     | 11.50 | 105  | 1044075  | 51.283   | ug/l  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 11.07 | 75   | 148926   | 56.354   | ug/l  | 98       |
| 82) 4-Chlorotoluene            | 11.51 | 91   | 969956   | 50.696   | ug/l  | 99       |
| 83) tert-Butylbenzene          | 11.76 | 119  | 1052916  | 53.143   | ug/l  | 97       |
| 84) 1,2,4-Trimethylbenzene     | 11.80 | 105  | 1057211  | 51.854   | ug/l  | 100      |
| 85) sec-Butylbenzene           | 11.94 | 105  | 1190776  | 50.911   | ug/l  | 100      |
| 86) p-Isopropyltoluene         | 12.06 | 119  | 1096231  | 51.238   | ug/l  | 100      |
| 87) 1,3-Dichlorobenzene        | 12.02 | 146  | 572289   | 49.061   | ug/l  | 99       |
| 88) 1,4-Dichlorobenzene        | 12.09 | 146  | 569267   | 47.995   | ug/l  | 100      |
| 89) n-Butylbenzene             | 12.39 | 91   | 904817   | 49.563   | ug/l  | 99       |
| 90) Hexachloroethane           | 12.59 | 117  | 202999   | 52.824   | ug/l  | 99       |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 573931   | 48.876   | ug/l  | 100      |
| 92) 1,2-Dibromo-3-Chloropropan | 12.99 | 75   | 99553    | 53.640   | ug/l  | 99       |
| 93) 1,2,4-Trichlorobenzene     | 13.64 | 180  | 360426   | 47.224   | ug/l  | 98       |

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QLast Update : Tue Dec 17 03:01:07 2019  
Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|-------|------|----------|--------|-------|----------|
| 94) Hexachlorobutadiene    | 13.78 | 225  | 170734   | 46.547 | ug/l  | 99       |
| 95) Naphthalene            | 13.83 | 128  | 1170173  | 52.184 | ug/l  | 99       |
| 96) 1,2,3-Trichlorobenzene | 14.01 | 180  | 371622   | 49.325 | ug/l  | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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